

Name_____

Date_____Block_____

SOLVING EQUATIONS WITH RADICALS

1. $x^2 = 9$

8. $x^5 = 32$

2. $x^2 - 4 = 12$

9. $3x^4 - 43 = 200$

3. $2x^2 + 1 = 99$

10. $\sqrt[3]{x+1} = 7$

4. $x^3 = 8$

11. $\sqrt[3]{x} = 64$

5. $x^3 + 2 = 29$

12. $\sqrt[4]{x-3} = 2$

6. $4x^3 - 7 = 493$

13. $\sqrt[3]{2x} = 3$

7. $x^4 = 16$

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14. $\frac{\sqrt{x+4}}{2} = -5$

19. $-3\sqrt{x-4} = -12$

20. $-4 + \sqrt[3]{x} = -2$

15. $\frac{\sqrt{x+4}}{-2} = -5$

21. $\sqrt{3+\sqrt{x}} = 4$

16. $\frac{\sqrt[3]{x}}{-4} = 54$

22. $2(x^5 - 1) = 0$

17. $\frac{\sqrt[3]{x}}{4} = 54$

23. $3(x^2 + 5) = 21$

18. $3\sqrt{x-4} = -12$

24. $5\left(\frac{x^2}{2} - 1\right) = 85$